© Copyright 2013. Black Box Corporation. All rights reserved. Black Box® and the Double Diamond logo are registered trademarks of BB Technologies, Inc. Any third-party trademarks appearing in this manual are acknowledged to be the property of their respective owners.

LPB308A, version 1

FREE! Live, 24/7 Tech Support is just 30 seconds away.
724-746-5500 | blackbox.com

1. Technical Specifications

Approvals	FCC Class A, CE
Cable	10BASE-T CAT3, 4, 5 UTP/STP; 100BASE-TX CAT5 UTP/STP
Filtering/Forwarding Rates	100-Mbps port: 148,800 pps; 10-Mbps port: 14,880 pps;
Memory	MAC Address: 4K; Buffer Memory: 1.625 Mb; Method: Store and Forward
Standards	IEEE 802.3af/at; IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX; IEEE 802.3x flow control
Interface	RJ-45: 10BASE-T/100BASE-TX
Connectors	(8) RJ-45 PSE/PoE+ ports
Indicators	(8) LINK/ACT LEDs, (8) PoE+ LEDs; (8) ACT/Status LEDs; (1) Power LED
Temperature	Operating: 32° to 131° F (0° to 55° C); Storage: -4° to 194° F (-20° to +85° C)
Humidity	10 to 90% relative, non-condensing
Power	Input: 100–240 VAC, 50–60 Hz; Output: PoE+: Per port: 56 VDC, 30 W maximum; PoE: Per port: 48 VDC, 15.4 W maximum; Consumption: 120 Watts (Max)
Dimensions	1.8"H x 7.3"W x 11"D (4.5 x 18.5 x 28 cm)
Weight	With packing: 5.1 lb. (2.3 kg)

2. Overview

This switch provides (8) 10/100M PSE/PoE ports. It is designed for easy installation and high performance in an environment where traffic on the network and the number of users increases continuously. PSE/PoE enables you to power the unit without placing it next to a power outlet.

Use the switch for medium to large workgroups. Install it where space is limited. It's easy to upgrade network capacity.

You can rackmount the switch on a 19" cabinet.

2.1 What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

- 8-Port 10/100 RJ-45 PoE+ Switch
- Power cord
- Rackmount kit: (2) brackets, (6) screws
- (4) rubber feet
- This quick start guide

2.2 Features

- Auto-negotiates speed between 10 and 100 Mbps PSE/PoE+ function ports.
- Supports 30 W maximum power for each PSE/PoE port.
- Compact size.
- Auto-learns networking configurations.
- Auto-detects full/half-duplex modes for any port.
- Has dedicated full-duplex 200Mbps bandwidth.
- Uses Store-and-Forward switching methods.
- Provides IEEE 802.3x flow control for full-duplex and back-pressure flow control for half-duplex.
- Non-blocking and Non-head-of-line blocking full wire speed forwarding.
- Auto-MDI/MDI-X for any port.
- Smart plug-and-play.

2.3 Hardware Description

Figure 2-1 shows the front panel of the switch. Table 2-1 describes the components.

NOTE: The back panel (not shown) is blank except for a 3-prong plug for the power supply. Plug is shown in Figure 3-3.

Figure 2-1. Front panel.

Table 2-1. Components.

Number in Figure 2-1	Component	Description
1	(8) RJ-45 10/100 PSE/PoE+ ports	Link to PoE+ powered devices (PDs).
2	(1) Power LED	ON when power to the unit is on. OFF when power to the unit is off.
3	(8) 10/100 M LEDs	ON when port is connected. OFF when port is not connected. Flashing when data is transmitting or receiving.
4	(8) PoE+ LEDs	ON when port is linked to a powered device (PD). OFF when no powered device (PD) is connected.
5	(1) Power connector	3-prong outlet for external power supply (optional) *NOTE: See Figure 3-3; located on back panel.*

FCC Warning

This device has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiatesradio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

CE Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

3. Connections

3.1 Connect a Switch/Hub to this 8-Port PoE+ Fast Ethernet Switch

This switch provides automatic crossover detection functionality for any port. Uplink it to another switch without using crossover cable. See Figure 3-1.

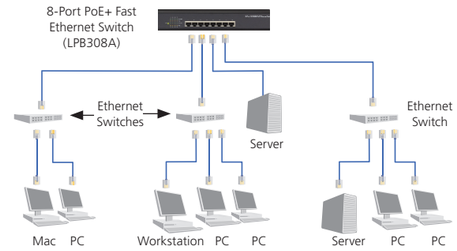

Figure 3-1. Connect a switch/hub to this PoE switch.

3.2 Connect a PC/Other Device to this 8-Port PoE+ Fast Ethernet Switch

Use straight-through twisted-pair cable to connect this switch to PCs, servers, and other network devices.

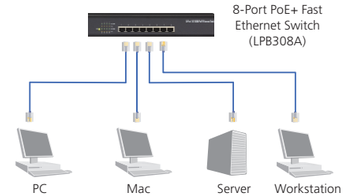

Figure 3-2. PoE+ switch connected to PCs/other devices.

Connect an IEEE 802.3at/af compliant Powered Device (PD) to Ports 1–8. The switch will supply 56 V power to the PD through CAT5 cables.

3.3 Rear Panel (Power) Connector

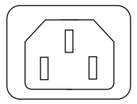

Figure 3-3. AC input (100–240-VAC, 50–60 Hz) (optional).

LPB308A

8-Port 10/100 RJ-45 PoE+ Switch

PoE+ enables you to power your equipment placed far away from a power outlet.

Quick Start Guide

Customer Support Information

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500) FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746 Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com